

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

WIDOCRYL-PM varnish, clear

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

sealing

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Widopan Produkte GmbH
Ostereichen 3
D-21714 Hammah

Telephone no. +49 (0) 4144 69821-0

Fax no. +49 (0) 4144 69821-20

Information provided by / telephone

+49 (0) 4144 69821-0

Advice on Safety Data Sheet

sdb_info@umco.de

Details of the importer

Address

Widopan Limited
System House
Horndon Industrial Park
24 Station Rd
West Horndon
Brentwood
CM13 3XL

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302

Aquatic Chronic 3; H412

Flam. Liq. 2; H225

Skin Irrit. 2; H315

Skin Sens. 1; H317

STOT SE 3; H335

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS02



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

 methyl-methacrylate
 2-ethylhexyl acrylate
 1,1'-(p-tolylimino)dipropan-2-ol
 2,2'-ethylenedioxydiethyl dimethacrylate

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208	Contains 2-(2H-benzotriazol-2-yl)-p-cresol. May produce an allergic reaction.
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Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

 PBT assessment
 No data available.

 vPvB assessment
 No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Methyl methacrylate-based reactive resin

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	methyl-methacrylate		

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

	80-62-6 201-297-1 607-035-00-6 01-2119452498-28	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	>= 50.00 - < 70.00	wt%
2	2-ethylhexyl acrylate			
	103-11-7 203-080-7 607-107-00-7 01-2119453158-37	Skin Irrit. 2; H315 Skin Sens. 1B; H317 STOT SE 3; H335 Aquatic Chronic 3; H412	>= 25.00 - < 50.00	wt%
3	1,1'-(p-tolylimino)dipropan-2-ol			
	38668-48-3 254-075-1 - 01-2119980937-17	Acute Tox. 2; H300 Aquatic Chronic 3; H412 Eye Irrit. 2; H319	< 5.00	wt%
4	2,2'-ethylenedioxydiethyl dimethacrylate			
	109-16-0 203-652-6 - 01-2119969287-21	Skin Sens. 1B; H317	< 5.00	wt%
5	2-(2H-benzotriazol-2-yl)-p-cresol			
	2440-22-4 219-470-5 - 01-2119583811-34	Aquatic Chronic 1; H410 Skin Sens. 1B; H317	>= 0.25 - < 1.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	D	-	-	-
2	D	-	-	-
4	D	-	-	-
5	-	-	-	M = 1

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
3	26 mg/kg bodyweight		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact

Remove with a cloth or paper. Wash off with soap and water. Don't use solvents. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Do not induce vomiting. Call a doctor immediately. Rinse the mouth thoroughly with water. Drink water in small gulps. Never give anything by mouth to an unconscious person.

Trade name: WIDOCRYL-PM varnish, clear**Current version :** 3.0.0, issued: 15.12.2023**Replaced version:** 2.2.0, issued: 04.07.2022**Region:** GB**4.2 Most important symptoms and effects, both acute and delayed**

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam; Extinguishing powder; Water spray jet; Carbon dioxide

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixtureIn the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from ignition sources.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Use barrier skin cream. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep in a cool place, heat causes increase in pressure and risk of bursting.

Recommended storage temperature

Value 5 - 25 °C

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original. Fill containers only up to 80%, because oxygen (air) is necessary for stabilization.

Incompatible products

Do not store together with fire promoting substances. Do not store together with foodstuffs.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
	2009/161/EU		
	methyl methacrylate		
	WEL short-term (15 min reference period)		100 ppm
	WEL long-term (8-hr TWA reference period)		50 ppm
	List of approved workplace exposure limits (WELs) / EH40		
	Methyl methacrylate		
	WEL short-term (15 min reference period)	416 mg/m ³	100 ppm
	WEL long-term (8-hr TWA reference period)	208 mg/m ³	50 ppm

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	methyl-methacrylate			80-62-6 201-297-1
	dermal	Short term (acute)	local	1.5 mg/cm ²
	dermal	Long term (chronic)	systemic	13.67 mg/kg
	dermal	Long term (chronic)	local	1.5 mg/cm ²
	inhalative	Long term (chronic)	systemic	348.4 mg/m ³
	inhalative	Long term (chronic)	local	208 mg/m ³
	inhalative	Short term (acute)	local	416 mg/m ³
2	2-ethylhexyl acrylate			103-11-7 203-080-7
	dermal	Long term (chronic)	systemic	6.5 mg/kg bw/day
	inhalative	Long term (chronic)	local	38 mg/m ³
	inhalative	Short term (acute)	local	38 mg/m ³
3	1,1'-(p-tolylimino)dipropan-2-ol			38668-48-3 254-075-1
	dermal	Long term (chronic)	systemic	0.70 mg/kg/day
	inhalative	Long term (chronic)	systemic	2.47 mg/m ³
4	2,2'-ethylenedioxydiethyl dimethacrylate			109-16-0 203-652-6
	dermal	Long term (chronic)	systemic	13.9 mg/kg/day
	inhalative	Long term (chronic)	systemic	48,5 mg/m ³

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

5	2-(2H-benzotriazol-2-yl)-p-cresol			2440-22-4 219-470-5
	dermal	Long term (chronic)	systemic	2.5 mg/kg/day
	inhalative	Long term (chronic)	systemic	1 mg/m ³
	inhalative	Short term (acut)	systemic	1 mg/m ³
	inhalative	Long term (chronic)	local	1 mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	methyl-methacrylate			80-62-6 201-297-1
	oral	Long term (chronic)	systemic	8.2 mg/kg bw/day
	dermal	Short term (acut)	local	1.5 mg/cm ²
	dermal	Long term (chronic)	systemic	8.2 mg/kg
	dermal	Long term (chronic)	local	1.5 mg/cm ²
	inhalative	Long term (chronic)	systemic	74.3 mg/m ³
	inhalative	Long term (chronic)	local	104 mg/m ³
	inhalative	Short term (acut)	local	208 mg/m ³
2	2-ethylhexyl acrylate			103-11-7 203-080-7
	oral	Long term (chronic)	systemic	0.23 mg/kg bw/day
	dermal	Long term (chronic)	systemic	2.34 mg/kg bw/day
	inhalative	Long term (chronic)	local	4.5 mg/m ³
3	1,1'-(p-tolylimino)dipropan-2-ol			38668-48-3 254-075-1
	oral	Long term (chronic)	systemic	0.25 mg/kg/day
4	2,2'-ethylenedioxydiethyl dimethacrylate			109-16-0 203-652-6
	oral	Long term (chronic)	systemic	8,33 mg/kg
	dermal	Long term (chronic)	systemic	8,33 mg/kg
	inhalative	Long term (chronic)	systemic	14,5 mg/m ³
5	2-(2H-benzotriazol-2-yl)-p-cresol			2440-22-4 219-470-5
	oral	Long term (chronic)	systemic	1.2 mg/kg/day
	dermal	Long term (chronic)	systemic	1.2 mg/kg/day

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	methyl-methacrylate		80-62-6 201-297-1
	water	fresh water	0.94 mg/L
	water	marine water	0.094 mg/L
	water	Aqua intermittent	0.94 mg/L
	water	fresh water sediment	10.2 mg/kg
	water	marine water sediment	0.102 mg/kg dry weight
	soil	-	1.48 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
2	2-ethylhexyl acrylate		103-11-7 203-080-7
	water	fresh water	2.72 µg/L
	water	marine water	0.272 µg/L
	water	fresh water sediment	0.108 mg/kg dry weight
	water	marine water sediment	10.8 µg/kg dry weight

Trade name: WIDOCRYL-PM varnish, clear**Current version :** 3.0.0, issued: 15.12.2023**Replaced version:** 2.2.0, issued: 04.07.2022**Region:** GB

	soil	-	1	mg/kg dry weight
	sewage treatment plant	-	2.3	mg/L
3	1,1'-(p-tolylimino)dipropan-2-ol		38668-48-3 254-075-1	
	water	fresh water	0.017	mg/L
	water	fresh water sediment	0.163	mg/kg dry weight
	water	marine water	0.0017	mg/L
	water	marine water sediment	0.016	mg/kg dry weight
	water	Aqua intermitten	0.17	mg/L
	soil	-	0.023	mg/kg
	sewage treatment plant	-	199.5	mg/L
4	2,2'-ethylenedioxydiethyl dimethacrylate		109-16-0 203-652-6	
	water	fresh water	0,16	mg/L
	water	marine water	0.002	mg/L
	water	fresh water sediment	0.185	mg/kg dry weight
	water	marine water sediment	0.018	mg/kg dry weight
	soil	-	0,027	mg/kg dry weight
	sewage treatment plant	-	1.7	mg/L
5	2-(2H-benzotriazol-2-yl)-p-cresol		2440-22-4 219-470-5	
	water	fresh water	0	mg/L
	water	marine water	0	mg/L
	water	fresh water sediment	0.136	mg/kg dry weight
	water	marine water sediment	0.014	mg/kg dry weight
	soil	-	100	mg/kg dry weight
	sewage treatment plant	-	1	mg/L

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respiratory filter (gas) : A

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber

Other

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

fire-resistant protective clothing

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation	
liquid	
Form	
liquid	
Colour	
violet	
Odour	
of acrylate	
Odour threshold	
Value	0.05 ppm
pH value	
No data available	
Boiling point / boiling range	
Value	101 °C
Method	DIN 51751
Reference substance	Methyl methacrylate
Melting point/freezing point	
Value	-48 °C
Reference substance	Methyl methacrylate
Decomposition temperature	
No data available	
Flash point	
Value	12 °C
Method	DIN 51755
Reference substance	Methyl methacrylate
Ignition temperature	
No data available	
Flammability	
No data available	
Lower explosion limit	
Value	2.1 % vol
Reference substance	Methyl methacrylate
Upper explosion limit	
Value	12.5 % vol
Reference substance	Methyl methacrylate
Vapour pressure	
Value	38.7 mbar
Reference substance	Methyl methacrylate
Relative vapour density	
No data available	

Trade name: WIDOCRYL-PM varnish, clear**Current version :** 3.0.0, issued: 15.12.2023**Replaced version:** 2.2.0, issued: 04.07.2022**Region:** GB

Relative density	
No data available	

Density	
Value	0.98 g/cm ³
Reference temperature	25 °C
Method	DIN 53217

Solubility in water	
Comments	insoluble

Solubility	
No data available	

Partition coefficient n-octanol/water (log value)

No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
	log Pow		1.38
	Reference temperature		20 °C
	Source	ECHA	
2	2-ethylhexyl acrylate	103-11-7	203-080-7
	log Pow		4.64
	Reference temperature		25 °C
	Method	OECD 107	
	Source	ECHA	
3	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
	log Pow		2.1
	Reference temperature		24 °C
	Method	OECD 107	
	Source	ECHA	
4	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
	log Pow		2.3
	Method	OECD 117	
	Source	ECHA	
5	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
	log Pow		4.2
	Reference temperature		25 °C
	with reference to	pH: 6.3	
	Method	OECD 107	
	Source	ECHA	

Kinematic viscosity	
Value	140 - 180 mPa*s
Reference temperature	25 °C
Type	kinematic

Particle characteristics	
No data available	

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable if stored and handled properly.

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

10.3 Possibility of hazardous reactions

Polymerization upon exposure to white light, ultraviolet light or heat. Polymerization is highly exothermic and may produce sufficient heat to cause thermal decomposition and/or rupture of the container.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Protect from sun.

10.5 Incompatible materials

Peroxides; Amines; Heavy metals; Oxidizing agents; Reducing agents

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	WIDOCRYL-PM varnish, clear
ATE (Mixture)	1040.00 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl acrylate	103-11-7	203-080-7
LD50		4435	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
LD50	> 25 - 200		mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
3	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
LD50		10000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
2	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
LC50		29.8	mg/l

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

Duration of exposure	4	h
State of aggregation	Vapour	
Species	rat	
Source	ECHA	
2	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4 219-470-5
LC50	>	0.59 mg/l
Duration of exposure	4	h
State of aggregation	Dust	
Species	rat	
Method	OECD 403	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl acrylate	103-11-7	203-080-7
Species	rabbit		
Method	BASF-Test		
Source	ECHA		
Evaluation	irritant		
2	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
3	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
Duration of exposure	24	h	
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
Duration of exposure	24	h	
Species	rat		
Method	US FDA - Appraisal of the Safety of Chemicals in Foods, Drugs and Cosmetics		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
Species	rabbit		
Source	ECHA		
Evaluation	Irritating to eyes		
2	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Respiratory or skin sensitisation		
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Trade name: WIDOCRYL-PM varnish, clear**Current version :** 3.0.0, issued: 15.12.2023**Replaced version:** 2.2.0, issued: 04.07.2022**Region:** GB

No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
2	2-ethylhexyl acrylate	103-11-7	203-080-7
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
3	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
4	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
Evaluation/classification		Based on available data, the classification criteria are met.	
5	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
Route of exposure		Skin	
Species		Guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		sensitizing	
Evaluation/classification		Based on available data, the classification criteria are met.	

Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
Duration of exposure		4 h	
Type of examination		in vitro gene mutation study in mammalian cells	
Species		Chinese hamster lung (CHL)	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
4	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
Type of examination		in vitro gene mutation study in mammalian cells	
Species		Chinese hamster Ovary (CHO)	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		in vitro gene mutation study in bacteria	
Species		S. typhimurium TA 1535, TA 1537, TA 98 and TA 100	
Method		OECD 471	
Source		ECHA	

Trade name: WIDOCRYL-PM varnish, clear**Current version :** 3.0.0, issued: 15.12.2023**Replaced version:** 2.2.0, issued: 04.07.2022**Region:** GB

Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	oral
Type of examination	In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus
Species	hamster
Method	OECD 474
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	oral
Type of examination	Mammalian bone marrow micronucleus (in vivo)
Species	hamster
Method	OECD 475
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
Route of exposure		oral	
NOEL		>= 300	mg/kg bw/d
Type of examination		Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		oral	
NOEL		>= 1000	mg/kg bw/d
Type of examination		Prenatal Developmental Toxicity Study	
Species		rat	
Method		OECD 414	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
Route of exposure		oral	
NOEL		>= 3000	ppm
Duration of exposure		104	week/s
Species		rat	
Method		OECD 452	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		oral	
NOEL		500	ppm
Duration of exposure		24	months
Species		mouse	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure	
No data available	

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
Route of exposure		oral	
NOEL		1000	ppm
Duration of exposure		90	day(s)
Species		dog	
Method		OECD 409	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Aspiration hazard			
No data available			

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
LC50		>	79 mg/l
Duration of exposure			96 h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	
2	2-ethylhexyl acrylate	103-11-7	203-080-7
LC50		1.81	mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	
3	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
LC50		17	mg/l
Duration of exposure		96	h
Species		Danio rerio	
Source		ECHA	
4	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
LC50		16.4	mg/l
Duration of exposure		96	h
Species		Danio rerio	
Method		OECD 203	
Source		ECHA	
5	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
LC50		>	0.17 mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

Toxicity to fish (chronic)			
No data available			

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
EC50		69	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	2-ethylhexyl acrylate	103-11-7	203-080-7
EC50		1.3	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
EC50		28.8	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
4	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
EC50	>	1000	mg/l
Duration of exposure		24	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
NOEC		37	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
2	2-ethylhexyl acrylate	103-11-7	203-080-7
NOEC		1.6	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
3	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
NOEC		32	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
4	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
NOEC		0.013	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

EC50	>	110	mg/l
Duration of exposure		72	h
Species	Selenastrum capricornutum		
Method	OECD 201		
Source	ECHA		
2	2-ethylhexyl acrylate	103-11-7	203-080-7
ErC50		1.71	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
3	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
EC50		245	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
4	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
EC50	>	100	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
5	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
ErC50	>	82.2	µg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No	Substance name	CAS no.	EC no.
1	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
EC50	>	100	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
Value		94	%
Duration		14	day(s)
Method	OECD 301 C		
Source	ECHA		
Evaluation	readily biodegradable		
2	2-ethylhexyl acrylate	103-11-7	203-080-7
Type	aerobic biodegradation		
Value	70	- 80	%
Duration		28	day(s)
Method	92/69/EEC C.4-D		
Source	ECHA		
Evaluation	readily biodegradable		
3	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
Type	aerobic biodegradation		

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

Value		39.1	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	inherently biodegradable		
4	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
Type	aerobic biodegradation		
Value		85	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
5	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
Type	aerobic biodegradation		
Value		2	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	not readily biodegradable		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
BCF		1456 - 1623	
Species	Oncorhynchus mykiss		
Method	OECD 305		
Source	ECHA		

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	methyl-methacrylate	80-62-6	201-297-1
log Pow		1.38	
Reference temperature		20	°C
Source	ECHA		
2	2-ethylhexyl acrylate	103-11-7	203-080-7
log Pow		4.64	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		
3	1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	254-075-1
log Pow		2.1	
Reference temperature		24	°C
Method	OECD 107		
Source	ECHA		
4	2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6
log Pow		2.3	
Method	OECD 117		
Source	ECHA		
5	2-(2H-benzotriazol-2-yl)-p-cresol	2440-22-4	219-470-5
log Pow		4.2	
Reference temperature		25	°C
with reference to	pH: 6.3		
Method	OECD 107		
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

Results of PBT and vPvB assessment

PBT assessment	No data available.
vPvB assessment	No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information
Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information
14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1866
Proper shipping name	RESIN SOLUTION
Special Provision 640	640C
Tunnel restriction code	D/E
Label	3

14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1866
Proper shipping name	RESIN SOLUTION
EmS	F-E, S-E
Label	3

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	II
UN number	UN1866
Proper shipping name	Resin solution
Label	3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3, 40
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	2-ethylhexyl acrylate	103-11-7	203-080-7	75
2	methyl-methacrylate	80-62-6	201-297-1	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	P5b
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15.2 Chemical safety assessment

No data available.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H300	Fatal if swallowed.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

D Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Creation of the safety data sheet

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Trade name: WIDOCRYL-PM varnish, clear

Current version : 3.0.0, issued: 15.12.2023

Replaced version: 2.2.0, issued: 04.07.2022

Region: GB

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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